# BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

Order Instituting Rulemaking to Examine the Commission's Future Energy Efficiency Policies, Administration and Programs.

Rulemaking 01-08-028 (Filed August 23, 2001)

# EM&V CONTRACTOR QUALIFICATIONS AND NOTIFICATION OF INTEREST RIDGE & ASSOCIATES

CPUC R.01-08-028

In Response to:

ADMINISTRATIVE LAW JUDGE'S RULING REGARDING EVALUATION, MEASUREMENT AND VERIFICATION OF LOCAL ENERGY EFFICIENCY PROGRAMS

July 2, 2002

Submitted by:

Katherine V. Randazzo KVDR Consulting 1375 Surfwood Lane San Diego, CA 92154 (619) 710-0444 kvrand@cox.net

# BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

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# EM&V Contractor Qualifications And Notification of Interest KVDR Consulting

## 1 Background

The ALJ Thomas Rulemaking 6/17/02 ordered potential contractors interested in providing EM&V services for local energy efficiency programs funded for 2002-03 to file and serve qualifications and resumes. In addition, the order required responses to five questions for each program for that the contractor was proposing to evaluate:

- 1. Identification of the Recipient(s) and local energy efficiency programs for which the Contractor proposes to perform EM&V services;
- 2. An explanation of why the contractor is independent of Recipient;
- 3. A list of all work the Contractor has done with or for the recipient;
- 4. An explanation of any factor that might lead a reasonable person to question whether the Contractor is actually independent of the Recipient; and
- 5. A description of any reason why the Commission might not select the Contractor (e.g., Contractor's outstanding state tax liens, present or former bankruptcy, pending civil or criminal litigation or other proceedings, license suspensions or other similar actions, or criminal convictions).

The documents were to be filed no later than 7/02/02.

In the following sections, we provide a statement of the qualifications of KVDR Consulting, the full resume of Dr. Katherine V. Randazzo, and answers to the five questions for each program that we propose to perform EM&V services.

# 2 Statement of Qualifications

Katherine V. Randazzo, Ph.D., is Principal and Owner of KVDR Consulting. She has more than 25 years of experience conducting a wide variety of evaluation and market research. Her expertise covers both quantitative and qualitative analysis, research design, and survey research, with an emphasis on evaluation research. The Qualifications of KVDR Consulting and the full resume of Dr. Randazzo are provided in Attachment A.

## 3 Responses to Questions

Below, I list for each Recipient the specific program(s) for which I propose to provide EM&V services and proceed to answer each of the five questions listed above. Before answering these questions, I emphasize that I have not worked with any of the local program administrators in helping to create these programs nor are we involved in any

way in their implementation. KVDR Consulting offers independent evaluation services and adheres to the highest professional standards.

# 3.1 SCE Programs

I propose to provide EM&V services to the following two SCE programs listed in Table 1.

**Table 1. SCE Programs** 

Energy Division	Proposal Sponsor	Program Title	IOU
Proposal Reference			Service
Number			Territory
37-02	SCE	In Home Energy Surveys Program	SCE
40-02	SCE	Local Small Nonresidential hard to Reach Program	SCE
		110514111	

# 3.1.1 Independence From SCE

KVDR Consulting has always had an entirely professional relationship with SCE. KVDR has provided services under numerous short-term contracts to SCE. No factors could be identified that might lead a reasonable person to question whether KVDR is actually independent of SCE.

#### 3.1.2 Reasons for Non-Selection

KVDR Consulting can think of no reasons (e.g., outstanding state tax liens, present or former bankruptcy, pending civil or criminal litigation, or other proceedings, license suspensions or other similar actions, or criminal convictions) why the CPUC might not select KVDR Consulting to evaluate the above Programs.

## 3.1.3 Past Work with SCE

KVDR Consulting has performed numerous projects for SCE. Some examples follow:

- 2002: Team member with Ridge & Associates to complete the 2001 Residential and Small Business Verification Audit.
- 2001: Consulting on methods for project by UC/Riverside on motivations for conservation. Also completed billing analysis and reported net savings due to energy crisis and customer conservation motivations.
- 2001: Team member with Ridge & Associates to complete the 2000 Residential and Small Business Verification Audit.
- 2000/2001: Conducted evaluation of small business energy conservation program (Business Edge).
- 2000: Conducted study to verify Southern California Edison's EnergyStar and ComfortWise milestone compliance. Developed interview, analyzed quantitative and qualitative data and wrote final report. Interviews conducted by KJ Consulting.
- 1999: Team member with Ridge & Associates to evaluation Southern California Edison's 1998 DSM Bidding program. Determined the net-to-gross ratio for the program.

- 1998: Team member with AESC and Ridge & Associates to evaluate Southern California Edison's 1997 Industrial Energy Efficiency Incentives program. Developed and applied method for determining the net-to-gross ratio, calculated it and wrote relevant sections of the report.
- 1998: Team member with Ridge & Associates to evaluation Southern California Edison's 1997 DSM Bidding program. Determined the net-to-gross ratio for the program.
- 1997-98: Team member with AESC and Ridge & Associates to evaluate Southern California Edison's 1996 Industrial Energy Efficiency Incentives program. Developed and applied method for determining the net-to-gross ratio, calculated it and wrote relevant sections of the report.

# 3.2 Certificate of Service

I, the undersigned, state that I am the owner of KVDR Consulting, that I reside in the State of California, that I am over the age of eighteen (18); and that my business address is: KVDR Consulting, 1375 Surfwood Lane, San Diego, CA 92154.

On the 2nd day of July 2002, the document entitled, "EM&V Contractor Qualifications and Notification of Interest," will be hand delivered to the Commission's Docket Office in San Francisco with a copy to ALJ Thomas and via electronic mail to ALJ Thomas and all parties on the Service List of record (see Service List in Attachment B).

I certify and declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct.

Executed on this 2nd day of July 2002.	
Katherine V. Randazzo, Ph.D.	

# ATTACHMENT A

QUALIFICATIONS OF

KATHERINE V. RANDAZZO, Ph.D. KVDR CONSULTING

1375 SURFWOOD LANE PHONE: (619) 710-0444 FAX: (619) 710-0088 KVRAND@COX.NET

# 1 Background

Katherine Randazzo, Ph.D., is the President and Owner of KVDR Consulting.. She conducted large-scale research in academia as a research professor, totaling 15 years of research in criminal and juvenile justice. Her expertise was in research methods, evaluation research, including process evaluation, survey research, longitudinal research and social psychology. She has a continuing academic association with the Fielding Institute where she teaches statistics and methods and reviews dissertations. (See attached curriculum vitae for her academic history). Transferring to the utility industry in 1984, she continued in program evaluation and began market research projects as well for Southern California Edison Co. She has conducted and participated in numerous impact and process evaluations for Edison. She has consulted with the CADMAC Persistence, Modeling, and Market Effects Subcommittees to produce research designs for measure retention. She has contributed in a substantial way to the development of Edison's inputs to the 1994 Protocols and Procedures for the Verification of Costs, Benefits, and Shareholder Earnings from Demand-side Management Programs. She has conducted and contributed to numerous research projects, both in the regulatory and the market research areas, over the last decade. Some relevant examples of this work are listed below.

- 1. 2002: Team member with Ridge & Associates to complete the 2001 Residential and Small Business Verification Audit.
- 2. 2001: Consulting on methods for project by UC/Riverside on motivations for conservation. Also completed billing analysis and reported net savings due to energy crisis and customer conservation motivations.
- 3. 2001: Team member with Ridge & Associates to complete the 2000 Residential and Small Business Verification Audit.
- 4. 2000/2001: Conducted evaluation of small business energy conservation program (Business Edge).
- 5. 2000: Conducted study to verify Southern California Edison's EnergyStar and ComfortWise milestone compliance. Developed interview, analyzed quantitative and qualitative data and wrote final report. Interviews conducted by KJ Consulting.
- 6. 1999: Team member with Equipoise Consulting, Inc. and Ridge & Associates to evaluate PG&E's 1997-98 PowerSaving Partners II program. Determined the net-to-gross ratio for the program.
- 7. 1999: Team member with Ridge & Associates to evaluation Southern California Edison's 1998 DSM Bidding program. Determined the net-to-gross ratio for the program.
- 8. 1998: Team member with AESC and Ridge & Associates to evaluate Southern California Edison's 1997 Industrial Energy Efficiency Incentives program. Developed and applied method for determining the net-to-gross ratio, calculated it and wrote relevant sections of the report.

- 9. 1998: Team member with Ridge & Associates to evaluation Southern California Edison's 1997 DSM Bidding program. Determined the net-to-gross ratio for the program.
- 10. 1997-98: Team member with AESC and Ridge & Associates to evaluate Southern California Edison's 1996 Industrial Energy Efficiency Incentives program. Developed and applied method for determining the net-to-gross ratio, calculated it and wrote relevant sections of the report.
- 11. 1997-98: Team member on Quantum Consulting study of the market effects created in the supermarket industry by PG&E programs.
- 12. 1997-98: Team member on Quantum Consulting study of PG&E's Market Effects Baseline study for the commercial and industrial sectors.
- 13. 1997: Team member on Quantum Consulting study of the Market Effects of Southern California Edison's Commercial and Industrial Energy Efficiency Programs. Specific role is in developing measures of consumer market barriers.
- 14. 1996-1997: Developed data collection instrument, survey training, and completed part of final analyses and report for project to assess Korea's market potential for an interruptible load management program. Report to Korea Energy Economics Institute (KEEI) and Korea Electric Power Company (KEPCO).
- 15. 1996-97: Project management for study of the Market Effects of Southern California Edison's and PG&E's Residential New Construction Programs.
- 16. 1996: Team member with SBW Consulting and Ridge & Associates to evaluate PG&E's 1995 Industrial Energy Efficiency Incentive program. Developed method (with Ridge & Associates) for a qualitative assessment of the program net-to-gross ratio. Generated ratio and co-wrote relevant sections of final report.
- 17. 1996: Review of literature on customer preferences for tariff structures and behavioral responses to various structures.
- 18. 1996: Developed quality assurance guidelines for the use of self-report-based net-to-gross ratios for the Modeling Subcommittee of the CADMAC.
- 19. 1996: participated in research design, survey design, and data analysis for PG&E's 1995 Industrial Incentive Program to determine net and gross impacts of installations of motors, lighting, HVAC, process and miscellaneous measures. Joint project with Ridge and Associates.
- 20. 1996: Completed research design and workplan for Southern California Edison's Residential Energy Management Services Programs.
- 21. 1996: Developed a market strategy for Southern California Edison's residential market sector, with strategy team.
- 22. 1995-96: Completed evaluation of device functionality for Southern California Edison's Air Conditioner Cycling Program and Agricultural Pumping Interruptible Program.
- 23. 1995: Completed analysis and reports for determining net impacts for PG&E's 1994 Commercial HVAC Incentive Program, using two techniques: billing analysis and self-report. Joint project with Ridge & Associates.

- 24. 1995: Completed several market research projects for Southern California Edison, of proprietary nature, including research design, sampling, questionnaire construction, project management, data analysis and reporting.
- 25. 1995: Development of comprehensive evaluation plan for 1993 and 1994 Energy Management Hardware Rebate and Services Programs.
- 26. 1995: Development of sampling procedures for determining sample size and implementing random sampling for ESCO bidding projects.
- 27. 1994: Consultation for Edison with CADMAC Persistence Subcommittee.
- 28. 1993-94: 1990-94 Customer Decision Studies Project management, file construction, and supervision of discrete choice analysis. Calibrated choice experiments for program participants and nonparticipants in four programs: residential retrofit commercial retrofit, residential new construction, and commercial new construction.
- 29. 1992-93: 1990 Energy Management Survey and Hardware Rebate Programs: Commercial, Industrial and Agricultural sectors. Comprehensive evaluation design and supervision of billing analysis. Major role in document prepared for 1992 workshops mandated by OII/OIR and in preparation of final report of 1990 program evaluation complying with standards created in workshops.
- 30. 1992: 1990 Assembly Industry Energy Use Survey. Data Analysis and report, 1992.
- 31. 1992: 1990 Energy Management Hardware Rebate and Services Program Data analysis and report on self-report-based net-to-gross ratios.
- 32. 1992: 1990-91 Industrial Energy Use Survey data analysis and report by market segments.
- 33. 1992: 1990-91 Agricultural/Water Supplier Energy Use Survey data analysis and report .
- 34. 1992: Energy Survey Program: Commercial, Industrial and Agricultural sectors. Program evaluation including net impacts and customer satisfaction. Principal researcher in research design, sample design, data collection, data analysis and reporting for multiple years. Analysis and summary of all past program evaluations.
- 35. 1990: Hardware Rebate Program: Commercial and Industrial Sector. Principal researcher for program evaluation for multiple years including net impacts and customer satisfaction. Assessment of data system for supporting analysis of acceptable payback periods. Comparison of net impact with audit program. Analysis and summary of all past program evaluations.
- 36. 1989: Onsite, telephone, and mail Energy Survey Program: Residential Sector. Program evaluation including net impacts. Principal role in data analysis and reporting.
- 37. 1987: Demand Subscription Service (DSS): Commercial and Residential customers. Load Management program. Designed and carried out program evaluation during selected years. Included mail survey data collection. Played major role in data analysis for final summary of evaluation results covering duration of program.
- 38. 1985: Mail survey response bias study: Commercial sector. Principal researcher.
- 39. 1985: Air Conditioner Cycling Program: Residential sector. Evaluation design, sample design, data collection, data analysis. Included customer satisfaction.
- 40. Numerous research and sample designs, methodological studies, and reports between 1985 and 1998.

2	Professional References			
References available upon request.				

### Curriculum vitae

# Katherine Van Dusen Randazzo (formerly Katherine Teilmann)

July, 2002

1375 Surfwood Lane San Diego, CA 92154 Tel: (619) 710-0444 Fax: (619) 710-0088

Education

M.A. May, 1987, Marriage, Family and Child Therapy at California Family Study Center.

Post Doctoral Fellow in Monitoring and Evaluating Deviance Control Efforts 1981-1982, University of Southern California.

Ph.D., 1976, Sociology, University of Southern California.

M.A., 1974, Sociology, University of Southern California.

B.A., 1972, Sociology, California State University, Los Angeles.

License

Licensed by State of California as a Marriage, Family and Child Counselor, MFC 27441.

Professional Experience

Faculty Member, Clinical Psychology, The Fielding Institute, (July, 1999 through present). Sit on dissertation committees for review of methods and statistics. Teach methods and statistics, qualitative and quantitative.

Interim Associate Dean for Faculty Development and Research, College of Education, San Diego State University (August, 1998 to July, 1999). Support faculty development in research and grants. Provide training opportunities and funding information.

*Independent Research Consultant* (1987 to present). Primary responsibility for numerous program evaluations and market research projects, data analyses, research designs, project management.

Part-Time Faculty for Research, The Fielding Institute (1994 to 1999). Review dissertation proposals for statistical and methodological issues and teach statistics and methods courses. Classes include beginning and multivariate statistics, survey research, evaluation research, structural equation modeling, interview and questionnaire design.

Private Clinical Practice. (1992 to 1996).

Clinical Associate, Julia Ann Singer Center. (June, 1987 to June, 1990).

*Social Worker* for Los Angeles County Department of Children's Services. (1985-1987).

*Senior Analyst*, Southern California Edison Co. (1984-1985). Primary responsibility for program evaluations and market surveys.

Research Consultant, California Family Study Center. (1985 to 1989).

Consultant, Rand Corporation, Criminal Justice Program. (1980-1984).

*Research Associate*, Psykologisk Institut in Copenhagen, Denmark (July,1984 to December, 1984) Set up new research projects in Denmark and Sweden. Data Analysis.

*Research Assistant Professor*, Social Science Research Institute, University of Southern California (1979-1984). This position focused on research, but allowed teaching some classes, as desired.

Tutor, Statistics, University of Southern California

Teaching Assistant, Department of Sociology, University of Southern California. (1973-1974) Social Problems.

*Research Assistant,* Office of Institutional Studies, University of Southern California (1972-73).

Classes Taught Elementary Statistics Multivariate Statistics

Structural Equation Modeling Organizational Behavior Criminal Behavior Survey Research Questionaire Construction

Reliability and Validity
Qualitative Methods

Research Completed See attached list of research conducted in the energy field from 1985 through present

Contracts and Grants

Authored and co-authored successful research contract proposals totaling approximately \$8 million as a private research consultant (1985-1998).

Principal Investigator on Deterrence and Learning Ability Grant. (National Institute of Justice 1982-1983)

Project Director of project to compare delinquency in Copenhagen with delinquency in Philadelphia. Principal investigator, Sarnoff A. Mednick. (National Institute of Justice, 1979-1981)

Principal Investigator on grant to assess delayed effects of 1977 juvenile justice legislation in California. Co-principal investigator, Malcolm W. Klein. (National Institute for Juvenile Justice and Delinquency Prevention, 1977-78).

Principal investigator on grant to assess impact of juvenile justice legislation in California. Co-Principal investigator, Malcolm W. Klein. (National Institute for Juvenile Justice and Delinquency Prevention, 1977-78)

Consultant. The Rand Corporation, Santa Monica, California, Criminal Justice Program. 1980-1984.

Research Associate, Social Science Research Institute, 1976-1979. Director of Analysis for the National Evaluation of Status Offender De institutionalization Project, Solomon Kobrin, Principal Investigator and Malcolm W. Klein, Co-Principal Investigator. (National Institute of Juvenile Justice and Delinquency Prevention, 1976-79.)

Senior Research Assistant, Social Science Research Institute, University of Southern California (1973-1976). Project coordinator of two large-scale program evaluations. Involved large data collection projects on juvenile diversion programs. Multiple waves of interviews with diverted juveniles and data collection from about 50 police departments to assess the effects of diversion on police and juveniles.

### **Publications**

# Articles and Chapters

Willems, P., Feldman, S., & Randazzo, K.V. (1999). The dimensions of perceived market barriers: Factor-analysis of information needs, risks, and hassles for customers and other market actors. *Proceedings of the International Energy Program Evaluation Conference*, 265-275.

Johnson, K., O'Drain, M., Feldman, S., Randazzo, K.V., & Willems, P. (1999). Measuring market effects in the supermarket industry. *Proceedings of the International Energy Program Evaluation Conference*, 401-412.

Randazzo, K. V., Ridge, R., Train, K., & Clarke, L. (1996). How many Mills ratios

does it take to estimate net effects? *Proceedings of the ACEEE Summer Study on Energy Efficiency in Buildings*, 6.1-6.8.

Van Dusen, K. T. Treatment interventions implied by biological factors (1985). In P. W. Greenwood (Ed.), *The Juvenile Rehabilitation Reader*. Santa Monica: The Rand Corporation.

#### Reprinted as:

Van Dusen, K. T.(1986). Treatment interventions implied by biological factors. P. W. Greenwood (Ed.), *Intervention Strategies for Chronic Juvenile Offenders*: Some New Perspectives. New York: Greenwood Press.

Van Dusen, K. T. & Mednick, S. A. (1984). A deterrence perspective of waiver from juvenile court. In J. L. White & E. C. Parks (Eds.), *Dangerous Juvenile Offenders*: Juveniles or Offenders. Washington D.C.: U.S. Department of Justice, OJJDP, NIJJDP.

Van Dusen, K. T. & Peterson, J. (1984). The uses of de-Institutionalization: What works for whom. In S. Kobrin & M. W. Klein, *The Uses of de-institutionalization: The DSO Experiments*. Beverly Hills: Sage Publications.

Van Dusen, K. T., Mednick, S. A., Gabrielli, W. F., & Hutchings, B. (1983). Social class and crime in an adoption cohort. *Journal of Criminal Law and Criminology*, 74, 1, 210-249.

#### Reprinted as

Van Dusen, K. T., Mednick, S. A., Gabrielli, W.F., Jr., & Hutchings, B. (1983). Social class and crime: Genetics and environment. In K. T. Van Dusen & S. A. Mednick (Eds.), *Prospective Studies of Crime and Delinquency* (pp. 57-72). Hingham, Mass.: Kluwer-Nijhoff.

Guttridge, P., Gabrielli, W. F., Jr., Mednick, S. A., & Van Dusen, K. T. (1983). Criminal violence in a birth cohort. In K. T. Van Dusen & S. A. Mednick (Eds.), *Prospective Studies of Crime and Delinquency* (pp. 211-224). Hingham, Mass.: Kluwer-Nijhoff.

Jensen, K., Mednick, S. A., & Van Dusen, K. T. (1984). The juvenile justice system in Denmark. In M. W. Klein (Ed.), *Comparative Juvenile Justice Systems*. Beverly Hills: Sage Publications.

Mednick, S. A., Moffitt, T., Gabrielli, W. F., Jr., Hutchings, B., & Van Dusen, K. T. (1983). Genetic factors in criminal behavior: A review. In J. Block, D. Olweus, & M. R. Yarrow (Eds.), *The Development of Antisocial and Prosocial Behavior*. New York: Academic Press.

Mednick, S. A., Venables, P., Schulsinger, F., Dalais, C. & Van Dusen, K. T. (1983). A controlled study of primary prevention: The Mauritius project. In N. F. Watt (Ed.), *Schizophrenia: A Longitudinal Perspective*. New York: Cambridge University Press.

Heim, M. M., Teilmann, K. S. (1983). The usefulness of official records in longitudinal research. In S. A. Mednick & M. Harway (Eds.), *Longitudinal Research in the United States*. Praeger.

Van Dusen, K. S. (1982). A theory to predict implementation of reform legislation. The *Sociological Microjournal*, Vol. XVI, Fiche No. 8.

Van Dusen, K. T. Net widening and relabelling in the juvenile justice system: Consequences of legal change. *American Behavioral Scientist*, July.

Teilmann, K. S. & Landry, P. H., Jr. (1981). Gender bias in juvenile justice, *Journal of Research in Crime and Delinquency*, January.

Teilmann, K. S. & Klein, M. W. (1980). Juvenile justice legislation: A framework for evaluation. In D. Shicor & D. H. Kelly (Eds.), *Critical Issues in Juvenile Delinquency*. Lexington Mass.: Lexington Books, D.C. Heath.

Klein, M. W., Teilmann, K. S., Styles, J. A., Lincoln, S. B., & Labin, S. (1976). The explosion in police diversion programs. In M. W. Klein (Ed.), *The Juvenile Justice System*. Beverly Hills: Sage Publications.

#### Reprinted as:

Klein, M. W., Teilmann, K. S., Styles, J. A., Lincoln, S. G., & Labin, S. (1976). The explosion in police diversion programs. In M. Guttentag (Ed.), *Evaluation Studies Review Annual*, Vol. 2, Beverly Hills: Sage Publications.

Klein, M. W. & Teilmann, K. S. (1976). Pivotal ingredients of police diversion programs. National Institute of Juvenile Justice and Delinquency Prevention.

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Klein, M. W., Teilmann, K. S., Styles, J. A., Lincoln, S. B., & Rosensweig, S. L. (1976). Police diversion of juvenile offenders: Evaluating the structural dimensions of a social fad. In M. W. Klein (Ed.), *The Juvenile Justice System*. Beverly Hills: Sage Publications.

Books Goodwin, D., Van Dusen, K. T., & Mednick, S. A. (Eds.). (1984). *Longitudinal Research in Alcoholism*. Hingham, Mass.: Kluwer-Nijhoff.

Van Dusen, K. T. & Mednick, S. A. (Eds.). (1983). *Prospective Studies of Crime and Delinquency*. Hingham, Mass.: Kluwer-Nijhoff.

Klein, M. W. & Teilmann, K. S. (Eds.) (1980). *Handbook of Criminal Justice Evaluation*. Beverly Hills, Sage Publications.

Numerous presentations at professional meetings between 1974 and 1984.

Professional Memberships American Evaluation Association National Council on Family Relations

California Association of Marriage and Family Therapy

# ATTACHMENT B

SERVICE LIST

# **Service List R.01-08-028**

sesco-lf@att.net	mike@comfortwise.com
kmccrea@sablaw.com	rlw@rlw.com
mharrigan@ase.org	springer@davisenergy.com
darrell@iwfa.com	westdakota@aol.com
jimross@r-c-s-inc.com	asowell@scsa.ca.gov
richhogan@hotmail.com	bburt@macnexus.org
wally.kolberg@swgas.com	rob@comfortwise.com
ed.gieseking@swgas.com	lmh@eslawfirm.com
andy.bettwy@swgas.com	jtachera@energy.state.ca.us
ckmitchell@powernet.net	glynnisjones@earthlink.net
dnorris@sppc.com	kmills@cfbf.com
jwhargrove@sppc.com	mpa@a-klaw.com
ceaston@sempra.com	dan@meek.net
pfeffer@scag.ca.gov	bwildman@sbwconsulting.com
reflectorsmike@earthlink.net	tom@ucons.com
wallis@winegardenergy.com	dws@keywaycorp.com
arago@csi.com	craigm@ensave.com
=	reknuj@aol.com
christa.piantadosi@sce.com	
rsperberg@onsitenergy.com	jlb@anyserda.org
kkam@sdenergy.org	tdavis5128@aol.com
vthompson@sempra.com	elsharif@ghpc.org
mmoore@sempra.com	jdrivera@drintl.com
kenm@powerlogic-usa.com	rutledgev@publicfm.com
Robsharpl@aol.com	martha.davis@appl.qe.com
cornstark1@aol.com	julie_a_white@email.whirlpool.com
kmckenna@ambag.org	staples@staples-ad.com
cal.broomhead@sfgov.org	staples@staples-ad.com
marcel@turn.org	sstrom@mncee.org
r0108028@cpuc.ca.gov	jcameron@arcainc.com
jes@cpuc.ca.gov	william.dalton@xcelenergy.com
joe_como@ci.sf.ca.us	dfrey@archenergy.com
srovetti@puc.sf.ca.us	dm@getwise.org
ek@a-klaw.com	fspasaro@socalgas.com
jlondon@gralegal.com	bgroch@greentechenergy.com
mmccormick@gralegal.com	susan-munves@santa-monica.org
rbm4@pge.com	susan-munves@santa-monica.org
scarter@nrdc.org	dinalane@gte.net
jhamrin@resource-solutions.org	daniel.f.duran@saic.com
shallenbgr@aol.com	thamilton@cheers.org
gpeterson@mncee.org	michaelgibbs@icfconsulting.com
vfoster@cadvision.com	dinalane@gte.net
ted@energy-solution.com	admin@gesusa.org
donlink@jps.net	case.admin@sce.com
mrufo@xenergy.com	don.arambula@sce.com
twombly@kw-engineering.com	ipena@ecosconsulting.com
jkelly@citizen.org	moore@ecosconsulting.com
mrw@mrwassoc.com	kswitzer@scwater.com
pjpowerlaw@aol.com	shiv@quixnet.net
swentworth@oaklandnet.com	rpustinger@rpmsolutions.org
bgwem@igc.org	ercaldwell@maacproject.org
carey.hamilton@ci.sj.ca.us	dale.foster@ttemi.com
carey.mamirreomecr.bj.ca.us	AATC. TOBCCT & CCCIIIT. COIII

jyamaqata@sempra.com mshames@ucan.org qsanchez@rhainc.com jjensen@rhainc.com jon@vpideas.com ywhiting@sdge.com neilmiller@earthlink.net jsynesio@us-power.com brenda@rer.com sthigpen@drintl.com donpedro1@earthlink.net energyanalysis@earthlink.net jlcraft@earthlink.net bob.belhumeur@honeywell.com tflanigan@energycoalition.org toca@utility-savings.com dwylie@aswengineering.com johnt@blueowltechnologies.com ltqwiz@msn.com dale@betterbuildings.com abrice@rhainc.com kristine@rhainc.com dkeyes@rhainc.com peter canessa@csufresno.edu lcasentini@drintl.com ann\_kelly@ci.sf.ca.us jpeck@sempra.com rachel@ceert.org jcl@cpuc.ca.gov rg1@cpuc.ca.gov cmurley@gralegal.com mivp@chevron.com pmiller@nrdc.org luluw@newsdata.com mtirpak@icfconsulting.com renee fernandez@emcorgroup.com vjensen@icfconsulting.com jimflanagan@iname.com slwb@pqe.com rsridge@attbi.com barbara@rhainc.com tnicotre@slb.com ashish@insyncinfo.com kgarbesi@csuhayward.edu krfloyd1@hotmail.com rknight@bki.com bfoster@gepllc.com gephq@gepllc.com rmowris@earthlink.net fisherconsultants@msn.com etlowe@aol.com misuriello@attbi.com Jaybhalla@aol.com gtraynor@tmarshall.com

msutter@alamedanet.net sam@energy-solution.com bmast@frontierassoc.com jerryl@abag.ca.gov chris@emeter.com kcorfee@xenergy.com fountain@dnai.com rsflood@mindspring.com sschiller@nexant.com difellman@energy-law-group.com rschmidt@bartlewells.com qcworldmail@yahoo.com drebello@gcworld.com eparker@qcworld.com ned2@ci.berkeley.ca.us ppiette@gcworld.com smecum@qcworld.com craigtyler@attbi.com elvine@lbl.qov mwbeck@lbl.gov rwwilson@lbl.gov irina@ideasarecheap.com john@proctoreng.com john@proctoreng.com dbleakly@peakstar.com. jna@speakeasy.org timrosenfeld@earthlink.net tconlon@geopraxis.com adiff@aol.com rita@ritanortonconsulting.com emahlon@ecoact.org sam.driggers@ci.stockton.ca.us terryhughes@afo.net cs@getwise.org rascott@atdial.net BillM@soldata.com mattb@rlw.com billknox@dcn.davis.ca.us mjberm@davisenergy.com rmccann@cal.net info@aeees.org blaising@braunlegal.com dmahone@h-m-g.com andy@salasobrine.com kcann@navigantconsulting.com lindam@rcrcnet.org dreynolds@aspensys.com lynch@sl.net pstoner@lqc.orq rnaylor@nmgovlaw.com tara.dunn@dqs.ca.qov fdeleon@energy.state.ca.us TMichel@egia.com dick@adm-energy.com

talereza@adm-energy.com karen@klindh.com jparks@smud.org pwelker@peci.org pfreedman@ecosconsulting.com john mclain@pqn.com mark qosvener@pqn.com carel.dewinkel@state.or.us tom@ucons.com rbordner@emil.com MADUNHAM17@aol.com rknecht@puc.state.nv.us mer@cpuc.ca.gov jst@cpuc.ca.gov ru4@cpuc.ca.gov ctd@cpuc.ca.gov dmb@cpuc.ca.gov dsh@cpuc.ca.qov dlw@cpuc.ca.gov ewk@cpuc.ca.gov cpe@cpuc.ca.gov jf2@cpuc.ca.gov ska@cpuc.ca.qov raw@cpuc.ca.gov srt@cpuc.ca.qov smo@cpuc.ca.gov zap@cpuc.ca.gov ztc@cpuc.ca.gov agarcia@energy.state.ca.us dhungerf@energy.state.ca.us tara.dunn@dqs.ca.qov jsugar@energy.state.ca.us mmesseng@energy.state.ca.us taryn smith@dca.ca.gov joseph.leung@gsa.co.santaclara.ca.us Vicki.Swank@gsa.co.santaclara.ca.us